

PLURAL COMPONENT SPRAY GUN FOR FAST SETTING MATERIALS**TECHNICAL FIELD**

This application claims the benefit of US Application serial number 60/461,453
5 filed April 9, 2003.

BACKGROUND ART

Plural component spray guns for use with fast setting materials have been popular
for applying foams and similar materials. While such application devices are generally
10 effective in applying such materials, they are often cumbersome and can require a number
of tools and substantial effort to disassemble and clean.

DISCLOSURE OF THE INVENTION

A new mix module plastic material has been discovered that provides at least
15 twice the life with ½ the wear of currently marketed mix modules. The mix module is
formed from a material known as KETRON™ PEEK HPV, a poly ether ether ketone
reinforced with graphite and PTFE lubricants and available from Quadrant Engineering
Plastic Products. This is a substantial advantage over currently known products in the
marketplace.

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These and other objects and advantages of the invention will appear more fully from the following description made in conjunction with the accompanying drawings wherein like reference characters refer to the same or similar parts throughout the several views.

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BRIEF DESCRIPTION OF DRAWINGS

Figure 1 is a partially exploded perspective view of the spray gun utilizing a mix module of the instant invention.

Figure 2 is a partially exploded side view of the spray gun utilizing a mix module
10 of the instant invention.

BEST MODE FOR CARRYING OUT THE INVENTION

The spray gun of the instant invention, generally designated 10, is shown in Figure 1. Gun 10 is comprised of a gun body 12.

15 The mix module 14 forms first and second spaced annular chambers 14A and 14B about the periphery thereof and first and second sets of passages 16A and 16B respectively connect said annular chambers 14A and 14B with the interior passage 14C thereof. The first and second sets of passages 16A and 16B enter the interior passage 14C at the same axial location thereby preventing a lead-lag situation which can produce unmixed
20 material. The mix module 14 is formed from a material known as KETRON™ PEEK HPV, a poly ether ether ketone reinforced with graphite and PTFE lubricants and available

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from Quadrant Engineering Plastic Products. Purge rod 18 is moveable through the central bore 14C of mix module 14.

It is contemplated that various changes and modifications may be made to the spray gun without departing from the spirit and scope of the invention as defined by the

5 following claims.